

the group *Tenuifoliae*. This group has not been known before west of the Mississippi River; but this discovery is only in line with facts recently ascertained in regard to the high altitudes of New Mexico, namely, that many of the plants of our northeastern flora, or closely allied species, occur there at altitudes above 2,400 meters. For this information I am indebted to Professor V. M. Spaulding, of the Desert Botanical Laboratory.

This species of the *Tenuifoliae* can be characterized as follows:

***Crataegus Wootoniana* sp. nov.**

Leaves ovate, 2-4.5 cm. long, 1.5-4.5 cm. wide, acute at the apex, broadly cuneate or truncate at the base, serrate or doubly serrate with fine straight teeth and 3-4 pairs of broad acute straight lobes, membranaceous, glabrous, dull light-green above, paler below; petioles slender, 1-2 cm. long; corymbs many-flowered, glabrous; flowers about 1 cm. wide; calyx glabrous, calyx-lobes lanceolate-acuminate, entire, about 4 mm. long, pink, persistent, erect or spreading in fruit; stamens about 10; styles 3-4; fruit ellipsoidal, red, 6-10 mm. thick, 8-12 mm. long; nutlets usually 3, strongly ridged on the back, 5-7 mm. long; nest of nutlets 5-6 mm. thick. A shrub sometimes 3 meters high, armed with curved spines 2-4.5 cm. long, vegetative twigs glabrous, reddish-brown becoming ash-gray.

Specimens examined: 584, *O. B. Metcalfe*, Mogollon Mts., on or near the west fork of the Gila River, Socorro Co., New Mexico; "Head of Little creek. Scarce. A shrub 10 ft. high, Aug. 23, 1903, 8,000 ft.;" type in the Gray Herbarium, cotypes (used in the description), sheets of the same number in the herbaria of the New York Botanical Garden, U. S. National Museum, and of the New Mexico Agricultural College; type of flowers, 182, *Turner*, White Mts., Lincoln Co., New Mexico, North Eagle, 1 1/2 miles above forks, May 22, 1899, 8,000 ft.

NEW YORK BOTANICAL GARDEN.

REVIEWS

Punnett's Mendelism*

The first edition of this essay was printed in May, 1905, and the second revised edition in February, 1907. The outline of

* Punnett, R. C. *Mendelism*. Second Edition. Pp. viii + 85, f. 7. Cambridge: Macmillan and Bowes; London: Macmillan and Co., Ltd. 1907.

Mendel's theory is preceded by a brief biographical note on its author. In this edition some of the newer developments, such as Bateson's "Presence and Absence Hypothesis," the newer conception of "reversion," and the phenomena of "dihybridism," supplanting the older conceptions of synthesis and the compound allelomorph, are included, bringing the treatment quite up to date. The statement of the general theory is clear and interesting, its practical bearings are indicated, and in a "Note" at the end directions are given for those who may wish to repeat Mendel's experiments. The seven diagrams are specially helpful.

It seems unfortunate that a work, otherwise so admirable, should be marred by a botanical morphology long since abandoned. Thus, on pages 16, 17, and 82, the stamens are referred to as the "male" and the pistil as the "female" organs of the flower. On page 19 the pollen-grain is described as a "minute male cell" and homologized with the spermatozoön of animals; and again, on page 20, the zygote is said to develop into the adult organism by "a process of repeated nuclear division," omitting cell-division entirely.

With the exception of these minor points, it seems difficult to imagine how the work could have been done much better. Teachers, especially, should welcome the book most heartily.

C. STUART GAGER.

PROCEEDINGS OF THE CLUB

OCTOBER 30, 1907

The meeting was held in the Museum Building of the New York Botanical Garden. The Club was called to order by the secretary at 3:55 o'clock, and Dr. John Hendley Barnhart was elected chairman. Twenty-two persons attended.

After the reading of the minutes for October 8, 1907, the following names were proposed for membership:

Mr. F. E. Fenno, Nichols, N. Y.; Mr. Morris Friedman, 2874 Briggs Ave., Bronx, N. Y. City; Miss Lillian Belle Sage, 34½ East 12th St., N. Y. City.

The question of omitting the regular meeting for November 27